

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/529,409
		Filing Date	08/22/2005
		First Named Inventor	Gin et al.
		Art Unit	1797
		Examiner Name	Fortuna, Ana M.
		Attorney Docket Number	114-02

Confirmation No. 6759 GWS 2/14/2008

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	7,090,788	08/15/2006	Elliott et al.	
	2	6,696,113	02/24/2004	Kawata et al.	
	3	6,586,561	06/01/2003	Litt et al.	
	4	6,264,741	07/24/2001	Brinker et al.	
	5	6,054,111	04/25/2000	Antonietti et al.	
	6	5,900,292	05/04/1999	Moriya et al.	
	7	5,849,215	12/15/1998	Gin et al.	
	8	5,670,051	09/23/1997	Pinnau et al.	
	9	5,238,992	08/24/1993	Outubuddin	
	10	5,238,613	08/24/1993	Anderson	
	11	4,614,524	09/30/1986	Kraus	
	12	US2006 0194927	08/31/2006	Gin et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²
	13	WO 98/30318	07/16/1998	Gin et al.		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	14	Beginn et al. (2000) "Membranes Containing Oriented Supramolecular Transport Channels," <i>Adv. Mater.</i> 12:513-516	
	15	Beginn et al. (2000) "Functional Membranes Containing Ion-Selective Matrix Fixed Supramolecular Channels," <i>Adv. Mater.</i> 12:510-516	
	16	Beginn, U. (1998) "Supramolecular Templates as Porogenes," <i>Adv. Mater.</i> 10(16):1391-1394	
Examiner Signature	/Ana Fortuna/ (09/21/2008)		Date Considered 09/21/2008

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	17	Clark et al. (1999) "Polymerization of Organized Polymer Assemblies," <i>Curr. Opin. Colloid Interface Sci.</i> 4:122-129	
	18	Deng et al. (1998) "Polymerizable Lyotropic Liquid Crystals Containing Transition-Metal and Lanthanide Ions: Architectural Control and Introduction of New Properties into Nanostructured Polymers," <i>J. Am. Chem. Soc.</i> 120(14):3522-3523	
	19	DePierro et al. (2004) "Generation and Control of Polymer Nanostructures Through Photopolymerization in Lyotropic Liquid Crystalline Media," <i>Radtech Rep.</i> :11-21	
	20	Eastoe et al. (2000) "Control Over Phase Curvature Using Mixtures of Polymerizable Surfactants," <i>Chem. Mater.</i> 12:3533-3537	
	21	Gankema et al. (1996), "Gel Template Leaching: An approach to Functional Nanoporous Membranes," <i>Macromol. Symp.</i> , 102, 301.	
	22	Gin et al. (1999) "Polymerizable Liquid Crystals as Building Blocks for Functional, Nanostructured Materials," <i>Synthetic Lett.</i> 10:1509-1522	
	23	Gin et al. (Oct. 2001) "Polymerized Lyotropic Crystal Assemblies for Materials Applications," <i>Acc. Chem. Res.</i> 34:973-980	
	24	Gray et al. (1998) "Polymerizable Lyotropic Liquid Crystals Containing Transition-Metal Ions as Building Blocks for Nanostructured Polymers and Composites," <i>Chem. Mater.</i> 10(7):1827-1832	
	25	Gu et al. (Jun. 2001) "A Nanostructured, Scandium-Containing Polymer for Heterogeneous Lewis Acid Catalysis in Water," <i>Chem. Mater.</i> 13(6):1949-1951	
	26	International Search Report for PCT/US0331429.	
	27	Jung et al. (Feb. 2001) "Polymerization in Lyotropic Liquid-Crystalline Phases of Dioctadecyldimethylammonium Bromide," <i>Colloid Polym. Sci.</i> 279:105-113	
	28	Lee et al. (1995) "Polymerization of Non-Lamellar Assemblies," <i>J. Am. Chem. Soc.</i> 117:5573-5578	
	29	Liu et al. (1998) "Diblock Thin Film with Densely Hexagonally Packed Nanochannels," <i>Adv. Mater.</i> 10:69-	
	30	Liu et al. (2000) "Nanofiltration Membranes Prepared by Direct Microemulsion Copolymerization Using Poly(Ethylene Oxide) Macromonomer as a Polymerizable Surfactant," <i>J. Appl. Polym. Sci.</i> 77:2785-2794	
	31	McGrath, K.M. (1996) "Polymerization of Liquid Crystalline Phases in Binary Surfactant/Water Systems. Part 2. ω -undecenyltrimethylammonium Bromide," <i>Colloid Polym. Sci.</i> 274:399-409	
	32	Miller et al. (1999) "Nanostructured Materials Based on Polymerizable Amphiphiles," <i>Curr. Opin. Colloid Interface Sci.</i> 4:338-347	
	33	Miller et al. (1999) "Heterogeneous Catalysis with Cross-Linked Lyotropic Liquid Crystal Assemblies: Organic Analogues to Zeolites and Mesoporous Sieves," <i>Angew. Chem. Int. Ed.</i> 38(20):3021-3026	

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Sheet 3 of 3

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	34	O'Brien et al. (1998) "Polymerization of Preformed Self-Organized Assemblies," <i>Acc. Chem. Res.</i> 31:861-868	
	35	Paleos, C.M. (1992) "Polymerization of Micelle-Forming Monomers," In; <i>Polymerizations in Organized Media</i> , Gordon and Breach, Philadelphia, pp.183-214	
	36	Pindzola et al. (2000), " Lyotropic Liquid-Crystalline Phase Behavior of Some Alkyltrimethylphosphonium Bromides", <i>Langmuir</i> , 16, 6750-6753.	
	37	Pindzola et al. (2001) "Polymerization of Phosphonium-Diene Based Gemini Surfactants in the Regular Hexagonal and Bi-Continuous Cubic Phases," <i>Abstracts of Papers of the Am. Chem. Soc.</i> 22 nd National Meeting, August 26-30, Chicago, IL	
	38	Pindzola et al. (April 2001) "Polymerization of a Phosphonium Diene Amphile in the Regular Hexagonal Phase with Retention of Microstructure," <i>J. Am. Chem. Soc.</i> 123(19):4617-4618	
	39	Pindzola et al. (Feb. 2003) "Cross-Linked Normal Hexagonal and Bicontinuous Cubic Assemblies via Polymerizable Gemini Amphiphiles," <i>J. Am. Chem. Soc.</i> , 125, 2940-2949.	
	40	Resel et al. (2000) "Structural Properties of Polymerized Lyotropic Liquid Crystal Phases of 3,4,5-Tris(ω-acryloxyalkoxy)benzoate Salts," <i>Macromol. Chem. Phys.</i> 201(11):1128-	
	41	Smith et al. (1997) "Ordered Poly-(p-phenylenevinylene) Matrix Nanocomposites via Lyotropic Liquid-Crystalline Monomers," <i>J. Am. Chem. Soc.</i> 119:4092-4093	
	42	Srisiri et al. (1997) "Polymerization of the Inverted Hexagonal Phase," <i>J. Am. Chem. Soc.</i> 119:4866-4873	
	43	Thundathil et al. (1980) "Polymerization in Lyotropic Crystals. I. Change of Structure During Polymerization," <i>J. Polym. Sci. Polym. Chem. Ed.</i> 18:2629-2640	
	44	Zhou et al. (2005) "Supported Lyotropic Liquid-Crystal Polymer Membranes: Promising Materials for Molecular-Size-Selective Aqueous Nanofiltration," <i>Adv. Mater.</i> 17(15), 1850-1853.	
	45	Zhou et al. (2007) "New Type of Membrane Material for Water Desalination Based on a Cross-Linked Bicontinuous Cubic Lyotropic Liquid Crystal Assembly", <i>J. Am. Chem. Soc.</i> , 129 (31), 9574 -9575	

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